PI300S

velleman® components

DC TO AC POWER INVERTER - PURE SINE WAVE

SPANNINGSOMVORMER DC - AC - ZUIVERE SINUSGOLF

INVERSEUR DE TENSION CC-CA - SINUSOIDE PURE

SPANNUNGSWANDLER DC - AC - ECHTE SINUSSPANNUNG

POWER : 300W

ATTENTION – OPGELET - ACHTUNG

OVERLOADING THIS DEVICE OR CONNECTING IT WITH AN INDUCTIVE LOAD (e.g. refrigerator, fan, drill) WILL DAMAGE IT AND AUTOMATICALLY VOID THE WARRANTY !!

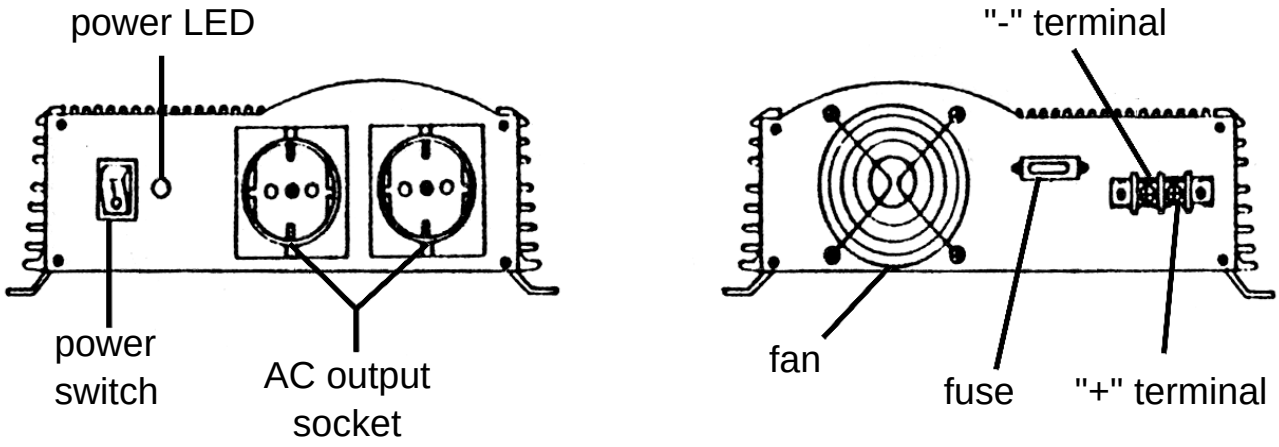
HET TOESTEL ZAL WORDEN BESCHADIGD INDIEN U HET OVERBELAST OF ER EEN INDUCTIEVE BELASTING (vb. koelkast, boormachine, ventilator) OP AANSLUIT. DE GARANTIE VERVALT DAN AUTOMATISCH !!

LA SURCHARGE DE L'APPAREIL OU LA CONNEXION D'UNE CHARGE INDUCTIVE (p.ex. ventilateur, réfrigérateur, perceuse) ENDOMMAGERONT L'APPAREIL ET LA GARANTIE SERA INVALIDEE AUTOMATIQUEMENT !!

DIE GARANTIE ERLISCHT UND DER SPANNUNGSWANDLER KANN BESCHÄDIGT WERDEN, WENN SIE IHN ÜBERLASTEN ODER MIT EINER INDUKTIVEN LAST VERBINDEN (z.B. Kühlschrank, Lüfter, Bohrmaschine).

User Manual
Gebruikershandleiding
Manuel d'utilisation
Bedienungsanleitung

1. DESCRIPTION



2. CONNECTIONS

Connect the device directly to the battery (crocodile clips included) for appliances of max. 300W.
Do not use appliances of more than 300W with this inverter.

3. OPERATION

Activate the inverter and then the appliance the inverter is connected to. If the buzzer sounds during operation, this indicates that the battery voltage is very low and that the inverter will be disconnected in ± 5 minutes.

4. FUSE

Please check the fuse of the PI300S if the power LED does not light during operation of the device. Replace blown fuses with an identical one.

FUSE : 35A MAX for applications of max. 300W

5. OUTPUT CAPACITY

The inverter will be switched off automatically if the total output capacity of the connected appliances exceeds the inverter’s output capacity. This will also happen if the temperature of the inverter exceeds 55°C due to prolonged use.

6. SPECIAL RECOMMENDATIONS

Unplug the AC inverter when it is not in use or when starting your vehicle's motor.

Proceed as follows if the AC inverter makes a beeping sound : switch off your appliance, unplug the inverter and restart your vehicle's engine. The beeping sound is simply the low-battery warning which indicates that the voltage of your battery is getting low. Your inverter will shut down automatically if you continue the use of your inverter while not restarting your engine. This will leave your car's battery with ± 10.5VDC, enabling you to restart your engine and resume operation of the inverter. It also eliminates the possibility of ending up with a dead battery.

Let your engine run for 10 to 20 minutes after every 2-3 hours of using the AC inverter in order to avoid excessive discharging of the battery. This allows your vehicle's battery to recharge.

Please remember to connect the "+" wire to the "+" terminal and the "-" wire to the "-" terminal if you choose to use an adapter in order to establish a direct connection between the AC inverter and the battery terminals. IF YOU CONNECT THE WIRES TO INCORRECT TERMINALS, THE POLARITY WILL BE REVERSED AND THIS WILL DAMAGE THE INVERTER. REVERSED POLARITY WILL INSTANTLY VOID YOUR INVERTER'S WARRANTY.

Please remember to disconnect the AC inverter before using the battery charger to replenish you battery's voltage. Failure to disconnect the inverter prior to connecting a charger may result in an input spike which will damage the inverter. CONNECTING THE INVERTER'S INPUT TO A BATTERY CHARGER WILL VOID THE WARRANTY AND MAY DAMAGE THE INVERTER.

Make sure that the battery's voltage never exceeds 15VDC.
CONNECTING THE INVERTER TO A DC POWER SOURCE GREATER THAN 15VDC WILL VOID THE WARRANTY AND MAY DAMAGE THE INVERTER.

7. ADDING EXTENSION CORDS

We recommend that the buyer refrain from using an extension cord between the DC power source and the inverter's DC input. Connecting an extension cord to the DC input will create a voltage drop, entailing reduced efficiency and output. Instead, you should use the extension cord to connect the AC output and the AC appliance. You may use up to 100ft (30m) of high-quality extension cord. A longer cord may result in reduced power.

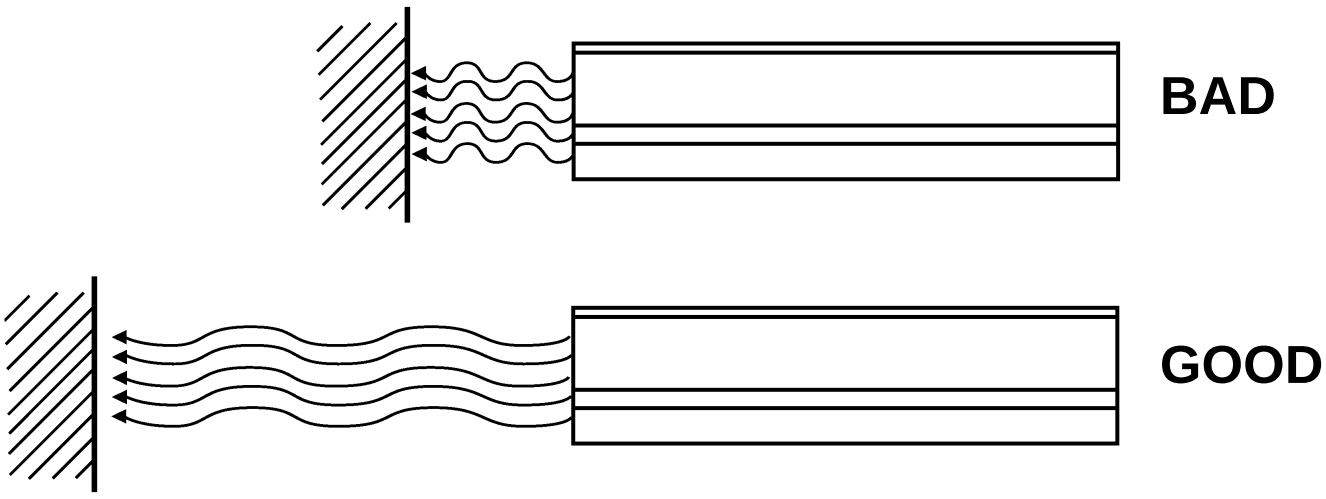
8. MEASURING AC VOLTAGES

The output wave of the AC inverter is a PURE SINEWAVE. If you choose to measure the AC output voltage, you must use an AUTHENTIC RMS VOLT METER. Using any other type of voltage measuring device will result in an AC voltage reading 20 to 30V lower than the rated value. The reading will only be accurate when using an authentic RMS voltmeter.

9. VENTILATION

IMPORTANT ! Make sure the fan keeps revolving as long as the device is in use. Check the inverter for possible malfunctions if the fan does not work when the inverter is being used.

Make sure the fan is not blocked in order to avoid poor ventilation.



10. SAFETY PRECAUTIONS

In case of trouble with the AC output, e.g. short-circuit, overload, etc… the protection circuit will automatically cut off the output.

In such cases :
- (A) switch off the power at once
- (B) disconnect all devices
- (C) check the devices for damage
- (D) connect the devices again as soon as all problems, if any, have been solved

When the device has been used for a prolonged period of time, the AC output may suddenly be cut off although the battery voltage is still very strong. This may be caused by high temperatures. If this happens, please proceed as follows :

- (A) switch off the inverter at once
- (B) disconnect some of the appliances or wait until the inverter cools off
- (C) switch the inverter back on

Always keep the inverter in an environment which is :

(A) well-ventilated
(B) not exposed to direct sunlight or any other heat source
(C) inaccessible to children
(D) safe from water/moisture, oil or grease
(E) safe from any flammable substance

Connecting the inverter in the wrong way will void the warranty.

Do not operate this device with wet hands and do not open the housing in order to avoid the risk of electroshocks.

Do not establish a direct connection between this device and another AC power source. The ensuing damage would void the warranty.

Do not use this device with appliances of more than 300W.

This device cannot be used with inductive or capacitive loads, e.g. a laptop. Disturbances may occur when using the PI300S with certain television sets. Consult the manual of your TV if this problem should occur.

WARNING : DO NOT CONNECT ANY INDUCTIVE LOADS WITH THIS DEVICE !

11. SPECIFICATIONS

- DC Input Voltage : 12V DC (10-15V)
- AC Output Voltage : 230V
- Output Power : 300W
- Output Frequency : 50Hz
- Output Wave : pure sine wave
- Efficiency (full load) : > 90%
- Max. Efficiency (charge 1/3) : 95%
- Total Harmonic Distortion : 4%
- No-Load Power Consumption : < 4W
- Battery-Low Alarm : 10.5 ± 0.5VDC
- Battery-Low Shutdown : 10 ± 0.5VDC
- Overheating Protection : 55 ± 5°C
- Dimensions : 205 x 242 x 80mm
- Weight : 2.02kg